

FIG. 1

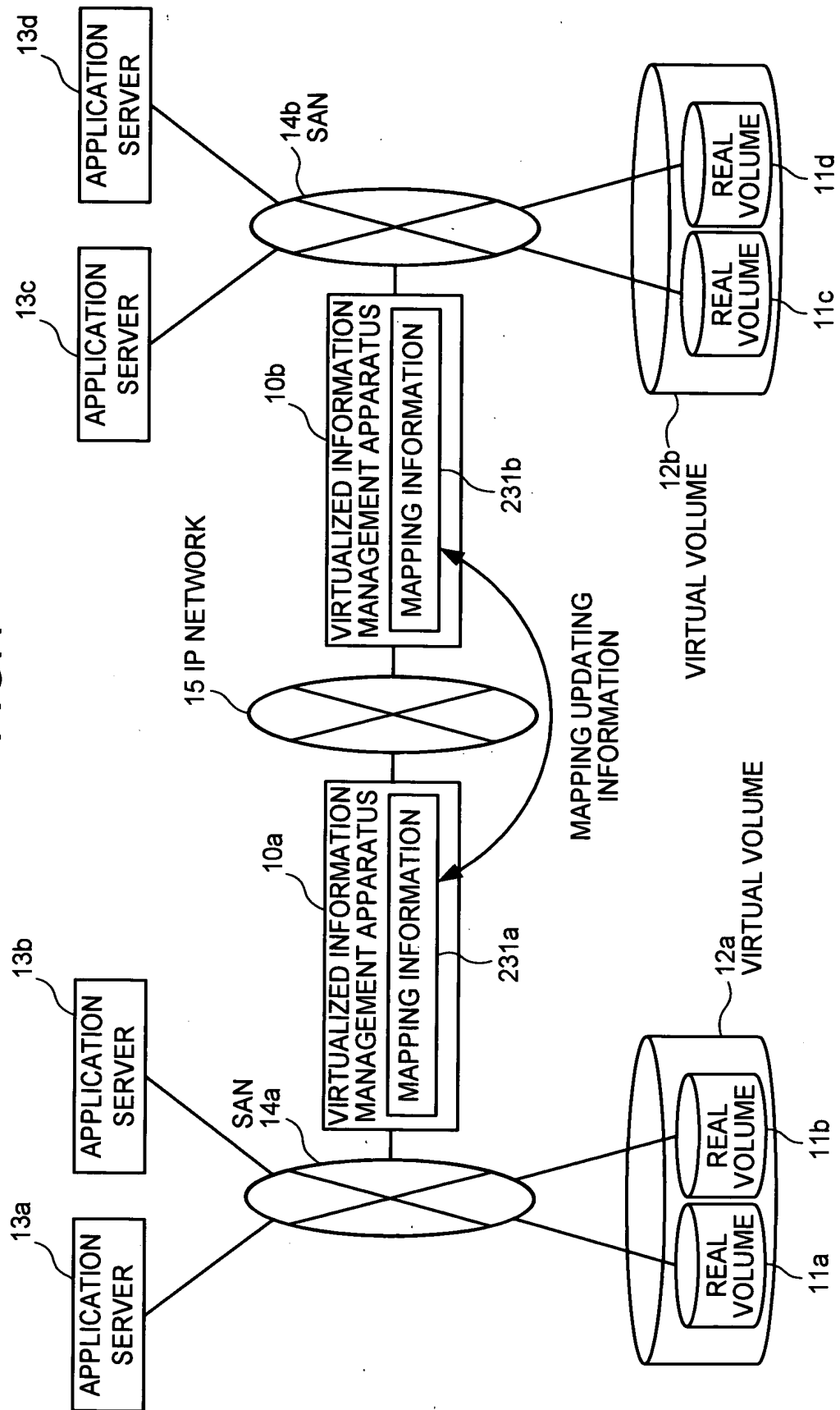


FIG.2

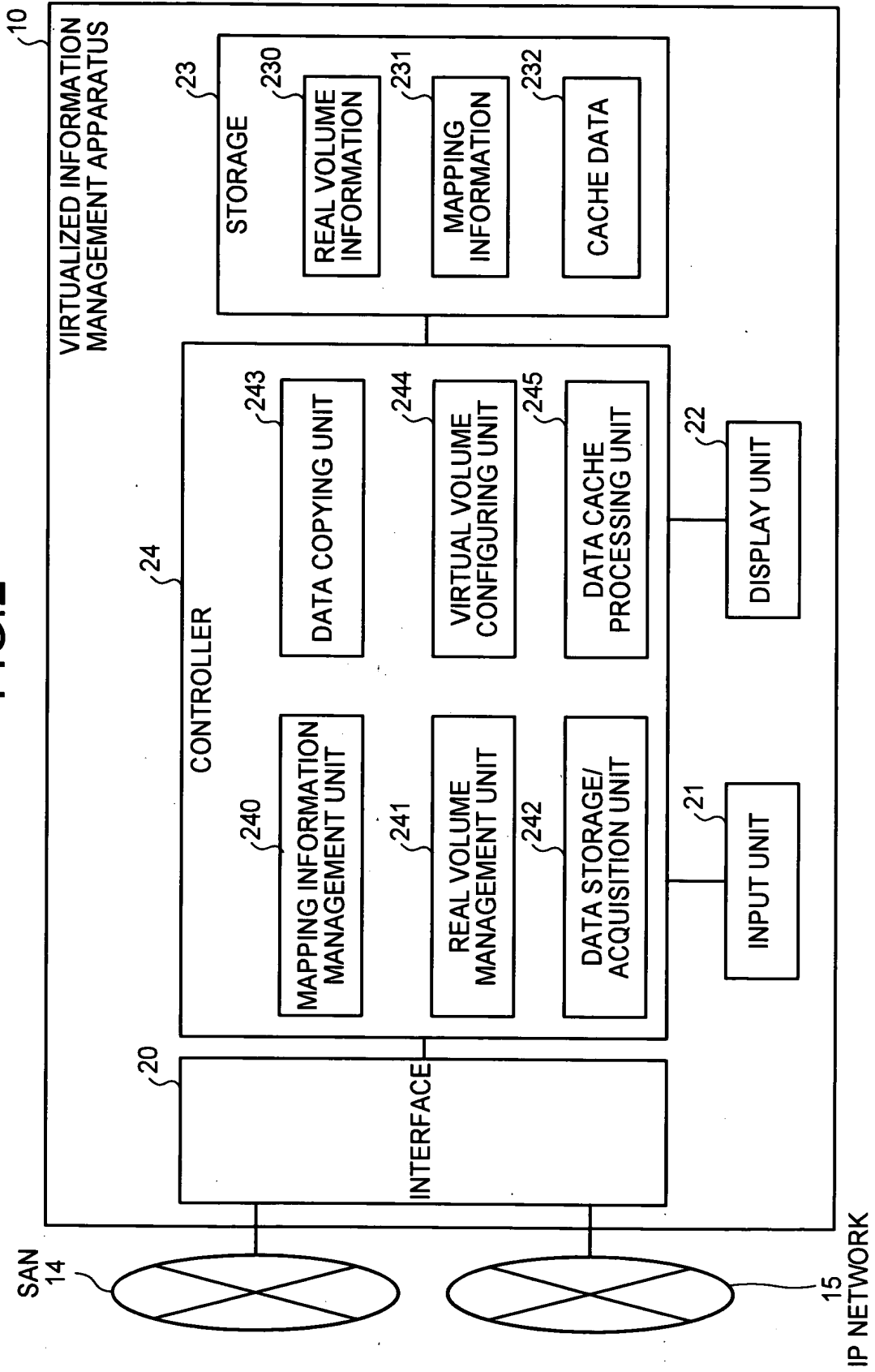


FIG.3A

REAL VOLUME IDENTIFYING INFORMATION

NAME OF VIRTUAL VOLUME	FC ADDRESS OF STORAGE DEVICE	LUN	STORAGE CAPACITY OF REAL VOLUME
VOLUME A	011300	0	60GB

	021a00	3	120GB
VOLUME B	051c00	8	50GB

	061f00	10	300GB
...

FIG.3B

REAL VOLUME FREE CAPACITY INFORMATION

FC ADDRESS OF STORAGE DEVICE	TYPE OF REAL VOLUME	FREE CAPACITY OF REAL VOLUME
011300	HIGH-SPEED HDD	40GB
021a10	HIGH-SPEED HDD	30GB
	LOW-SPEED HDD	60GB
051c00	LOW-SPEED HDD	50GB
061f00	TAPE DRIVE	—
...

FIG.4A

REAL VOLUME IDENTIFYING INFORMATION

NAME OF COMMON VIRTUAL VOLUME	NAME OF VIRTUALIZED INFORMATION MANAGEMENT APPARATUS	IP ADDRESS OF VIRTUALIZED INFORMATION MANAGEMENT APPARATUS	NAME OF VIRTUAL VOLUME IN VIRTUALIZED INFORMATION MANAGEMENT APPARATUS	FREE CAPACITY OF VIRTUAL VOLUME
VOLUME 1	APPARATUS A	123.45.67.8	VOLUME A	150GB
	APPARATUS A	123.45.67.8	VOLUME B	300GB
VOLUME 2	APPARATUS B	98.76.54.32	VOLUME C	200GB
...

FIG.4B

VIRTUAL VOLUME SECTOR INFORMATION

NAME OF COMMON VIRTUAL VOLUME	VIRTUAL VOLUME SECTOR	NAME OF VIRTUAL VOLUME IN VIRTUALIZED INFORMATION MANAGEMENT APPARATUS	FC ADDRESS OF STORAGE DEVICE	REAL VOLUME SECTOR
VOLUME 1	1 ~ 233,444	VOLUME A	021a00	1 ~ 233,444
		VOLUME B	051c00	1 ~ 233,444
VOLUME 2	1 ~ 362,891	VOLUME C	071900	1 ~ 362,891
...

FIG.5

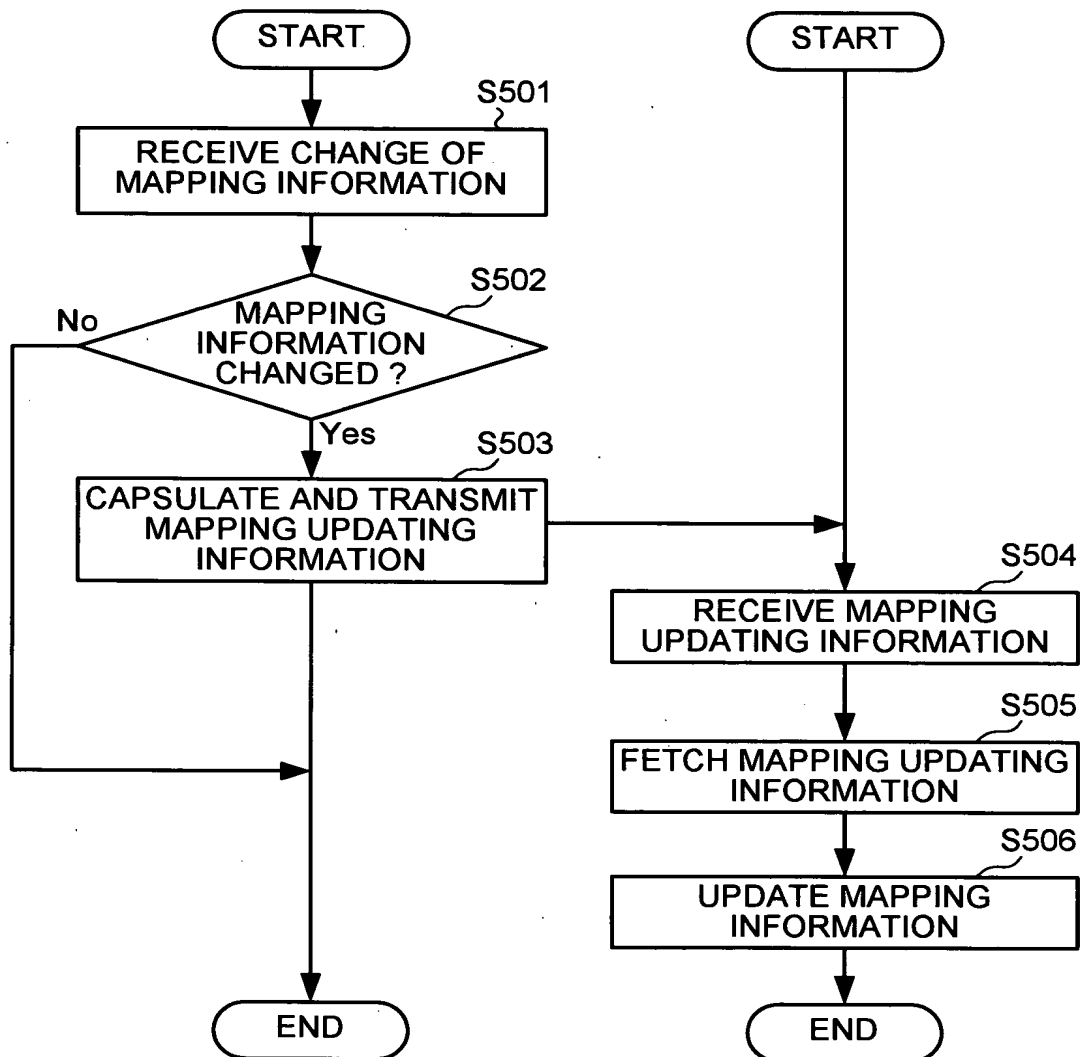
VIRTUALIZED INFORMATION
MANAGEMENT APPARATUS 10aVIRTUALIZED INFORMATION
MANAGEMENT APPARATUS 10b

FIG.6

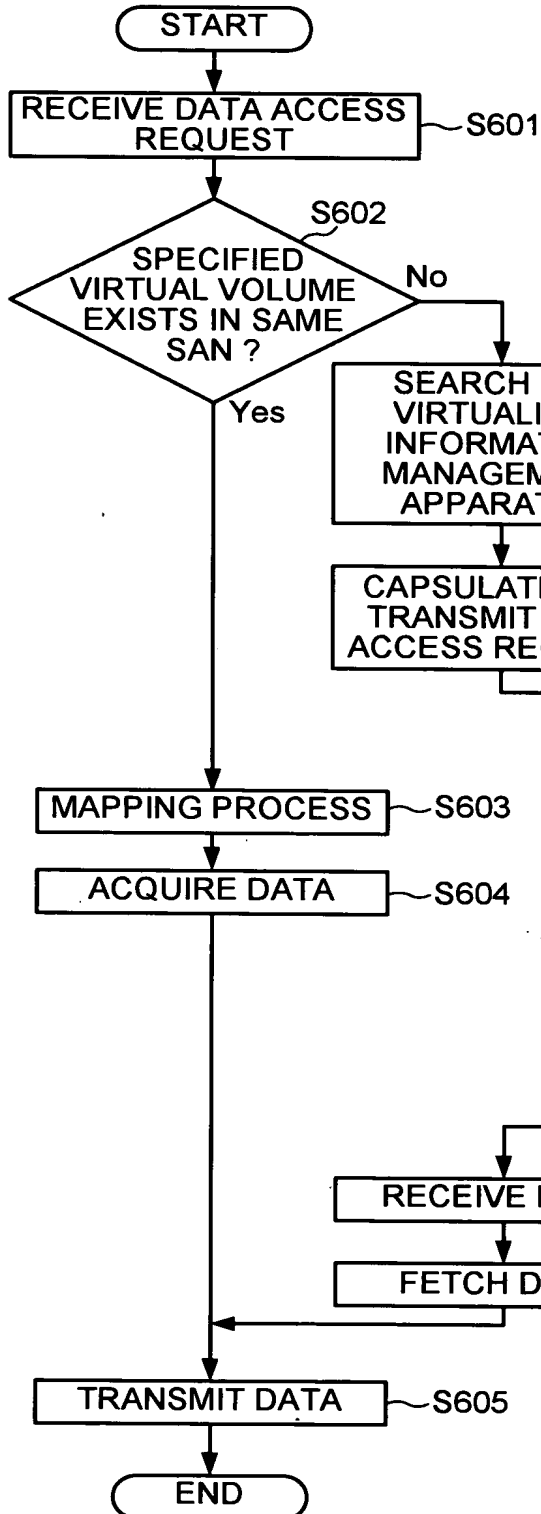
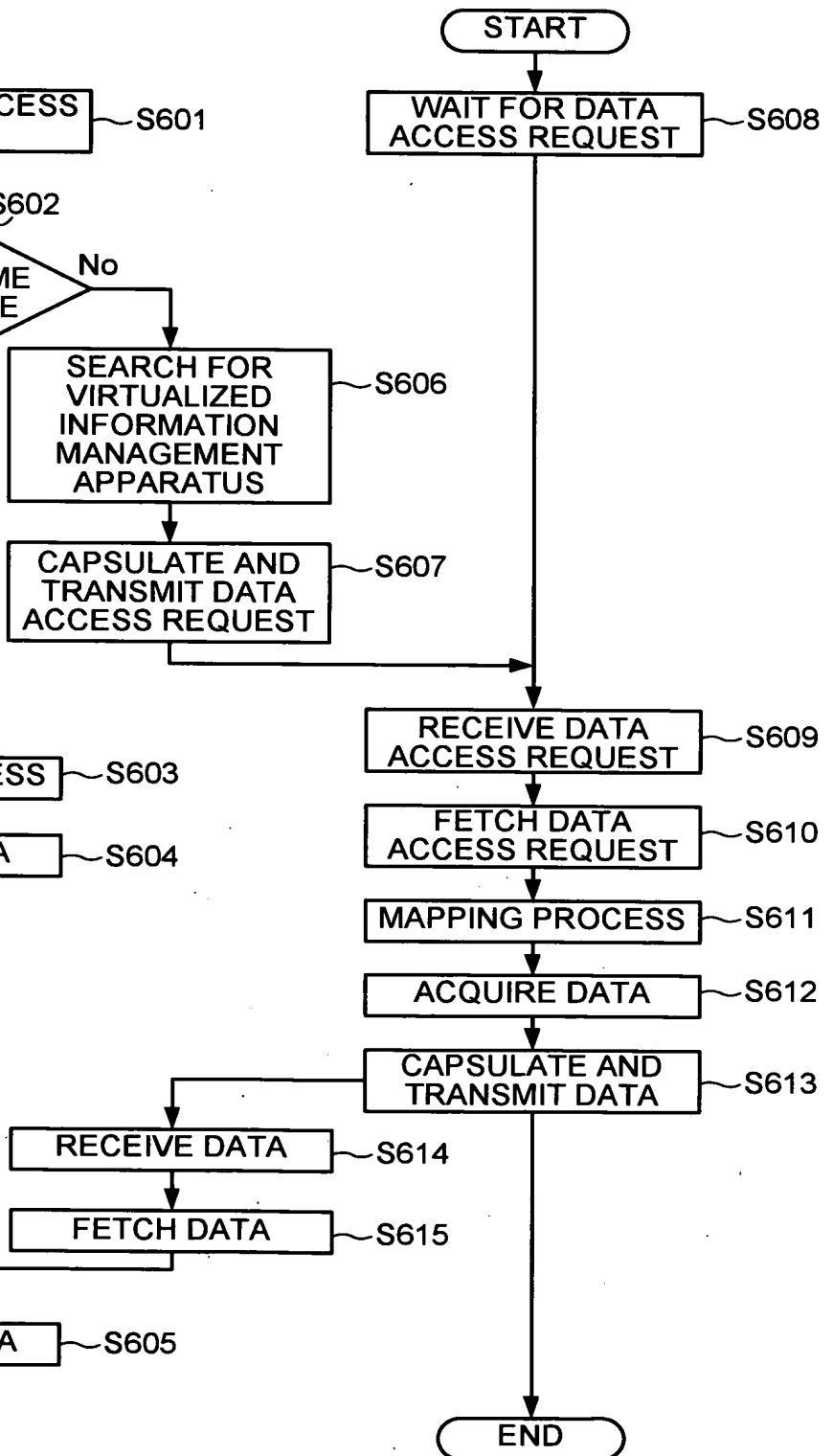
VIRTUALIZED INFORMATION
MANAGEMENT APPARATUS 10aVIRTUALIZED INFORMATION
MANAGEMENT APPARATUS 10b

FIG.7

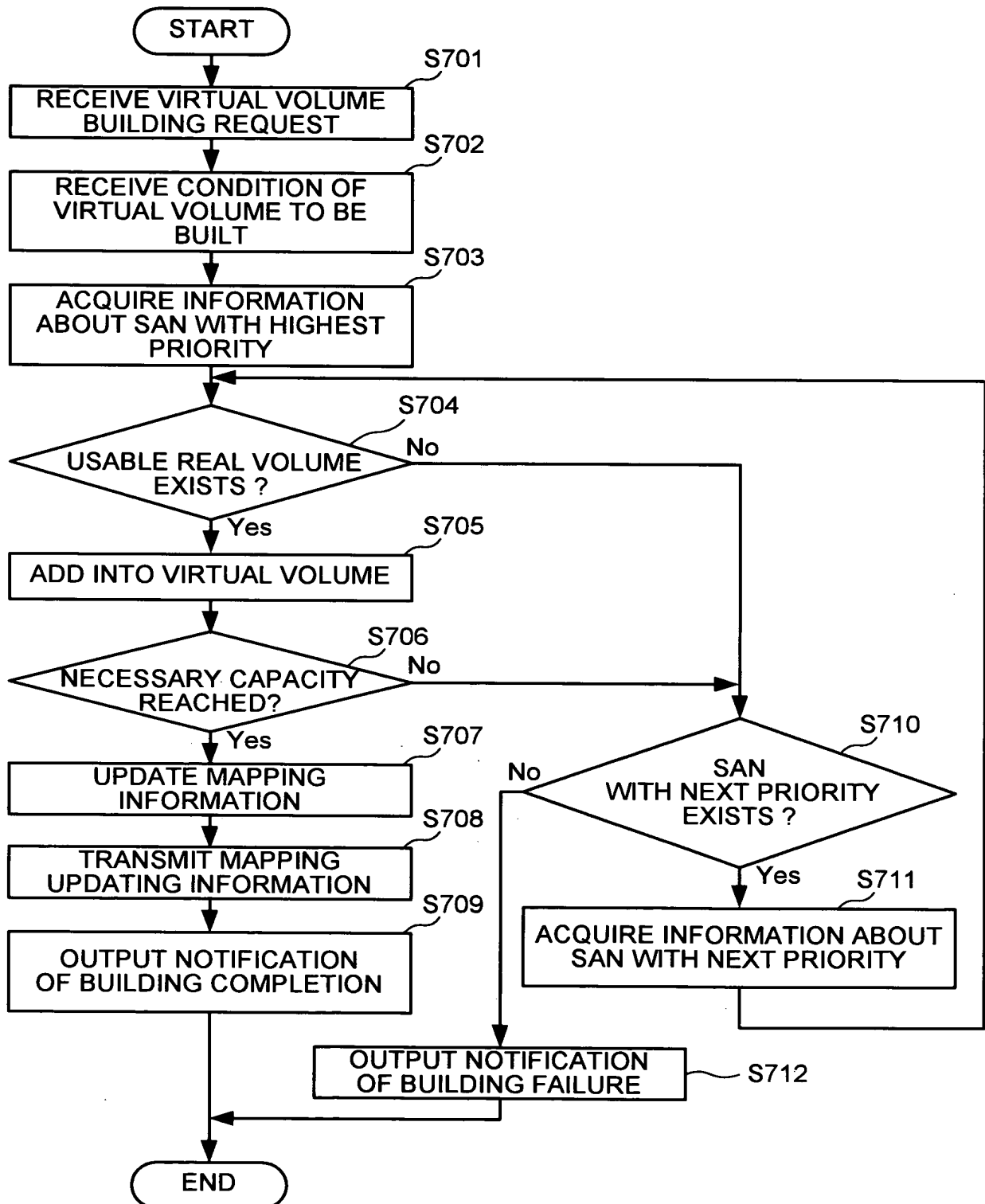


FIG. 8

